

LANXESS at FAKUMA, October 17 – 21, 2017, Messe  
Friedrichshafen, Hall B4, Booth 4209

### Focus on new forms of mobility

- **New high-temperature-stabilized polyamides**
- **Flame-retardant thermoplastics for electric mobility**
- **Lightweight design with hybrid technology and thermoplastic composites**
- **New polyamides for blow-molded air ducts**

**Cologne** – Specialty chemicals company LANXESS will primarily focus on the sustainable in-vehicle applications of its thermoplastics during its appearance at the Fakuma trade fair. As Jan Bender, Head of Marketing EMEA HPM (High Performance Materials) at LANXESS, explains: “We want to show that our high performance plastics contribute significantly to environmentally and climate-friendly mobility. We are also presenting ourselves as a competent development partner for applications of plastics in new forms of mobility, such as electric mobility and self-driving vehicles, and are demonstrating possible solutions with our materials.”

### Long-term resistance up to 230 °C

The new XTS2 heat stabilization system (Xtreme Temperature Stabilization) is a highlight of LANXESS’s booth. This system increases the continuous operating temperatures of certain Durethan polyamides to over 230°C. The first representative of the new product line is a glass-fiber-reinforced polyamide 66 grade, Durethan AKV35XTS2. “This is our response to the growing trend toward more efficient combustion engines that subject plastic components under the hood to higher thermal loads,” explains Bender. The new polyamides provide an alternative to costly, heat-stabilized specialty thermoplastics such as fully and semi-aromatic polyamides and polyphenylene sulfide. Possible applications include air intake

#### LANXESS AG

Contact:  
Michael Fahrig  
Corporate Communications  
Spokesperson Trade & Technical  
Press  
50569 Cologne  
Germany

Phone +49 221 8885-5041  
michael.fahrig@lanxess.com

Page 1 of 4

modules with an integrated intercooler or air ducts near the turbocharger.

### **Tailor-made for components in vehicle batteries**

Flame-retardant polyamides and polyesters that have major potential for use within electric vehicles and self-driving vehicle designs represent another key area. One example is Poca AF4130, a blend of PBT (polybutylene terephthalate) and ASA (acrylonitrile-styrene-acrylate). According to Bender, “the material is particularly suitable for precision components within vehicle battery systems because it has low warpage and shrinkage and is highly flame-retardant.” For instance, the material obtained 5VA classification (1.5 mm) in the UL 94 flammability test. It also has very good chemical resistance, for example to an electrolyte widely used in lithium-ion batteries (DIN EN 22088-3).

### **Lightweight structures and indestructible underfloor protection paneling**

Using various exhibits, LANXESS will highlight the great potential offered by plastic-metal-hybrid technology (hybrid technology) and the Tepex-branded continuous-fiber-reinforced thermoplastic composites in lightweight automotive design. Lightweight frontend modules with high load capacity produced with hybrid technology will be on show. By way of Tepex exhibits, LANXESS will be displaying serially manufactured underfloor protection paneling such as a center tunnel cover and engine underdrive protection that stand out due to their very high degree of mechanical toughness. A lightweight door module support for a compact-class vehicle and a structurally reinforced front end with integrated active grille shutters (AGS) will also be on show.

#### **LANXESS AG**

Contact:  
Michael Fahrig  
Corporate Communications  
Spokesperson Trade & Technical  
Press  
50569 Cologne  
Germany

Phone: +49 221 8885-5041  
[michael.fahrig@lanxess.com](mailto:michael.fahrig@lanxess.com)

Page 2 of 4

### **New, blow-moldable polyamides for forced induction engines**

The trend towards turbo-charged engines has led to more stringent heat resistance requirements within engine air management for hollow plastic parts such as charge-air ducts. LANXESS will present the new Durethan AKV320ZH2.0 and Durethan BKV320ZH2.0 polyamides at Fakuma. These are designed mainly for 3D suction blow molding, of air ducts, for example. Both compounds that have been optimized for large-scale production have a wide processing window and provide components with excellent surfaces. "We are also working to transfer our XTS2 technology to our blow-mold products," concludes Bender.

#### **LANXESS AG**

Contact:  
Michael Fahrig  
Corporate Communications  
Spokesperson Trade & Technical  
Press  
50569 Cologne  
Germany

Phone: +49 221 8885-5041  
michael.fahrig@lanxess.com

Page 3 of 4

LANXESS is a leading specialty chemicals company with sales of EUR 7.7 billion in 2016 and about 19,200 employees in 25 countries. The company is currently represented at 75 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives, specialty chemicals and plastics. Through ARLANXEO, the joint venture with Saudi Aramco, LANXESS is also a leading supplier of synthetic rubber. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World) and FTSE4Good.

Cologne, September 14, 2017  
mfg/rei (2017-00079e)

#### **Forward-Looking Statements**

This company release contains certain forward-looking statements, including assumptions, opinions, expectations and views of the company or cited from third party sources. Various known and unknown risks, uncertainties and other factors could cause the actual results, financial position, development or performance of LANXESS AG to differ materially from the estimations expressed or implied herein. LANXESS AG does not guarantee that the assumptions underlying such forward-looking statements are free from errors nor does it accept any responsibility for the future accuracy of the opinions expressed in this presentation or the actual occurrence of the forecast developments. No representation or warranty (expressed or implied) is made as to, and no reliance should be placed on, any information, estimates, targets and opinions, contained herein, and no liability whatsoever is accepted as to any errors, omissions or misstatements contained herein, and accordingly, no representative of LANXESS AG or any of its affiliated companies or any of such person's officers, directors or employees accept any liability whatsoever arising directly or indirectly from the use of this document.

## News Release

### Information for editors:

All LANXESS news releases and their accompanying photos can be found at <http://press.lanxess.com>. Recent photos of the Board of Management and other LANXESS image material are available at <http://photos.lanxess.com>. TV footage can be found at <http://globe360.net/broadcast.lanxess/>.

You can find further information concerning LANXESS chemistry in our WebMagazine at <http://webmagazine.lanxess.com>.

**Follow us** on Twitter, Facebook, LinkedIn and YouTube:

<http://www.twitter.com/LANXESS>

<http://www.facebook.com/LANXESS>

<http://www.linkedin.com/company/lanxess>

<http://www.youtube.com/lanxess>

### LANXESS AG

Contact:  
Michael Fahrig  
Corporate Communications  
Spokesperson Trade & Technical  
Press  
50569 Cologne  
Germany

Phone: +49 221 8885-5041  
[michael.fahrig@lanxess.com](mailto:michael.fahrig@lanxess.com)

Page 4 of 4